

What is claimed is:

1. A torque sensor comprising:
  - a first shaft and a second shaft connected coaxially;
  - 5 a torsion bar converting a torque applied between said first shaft and said second shaft into a torsion displacement;
  - a multipolar magnet fixed to said first shaft or to one end of said torsion bar;
  - one set of magnetic yokes fixed to said second shaft or to the other 10 end of said torsion bar and disposed in a magnetic field generated by said multipolar magnet;
  - one set of flux collecting rings disposed along an outer surface of said one set of magnetic yokes and opposed to each other via an air gap in an axial direction; and
  - 15 a magnetic sensor for detecting the density of magnetic flux generated in said air gap,
    - wherein an outer cylindrical surface of said one set of flux collecting rings is surrounded by a magnetic shield.
- 20 2. The torque sensor in accordance with claim 1, wherein said magnetic shield has side portions covering side surfaces of said one set of flux collecting rings.
- 25 3. The torque sensor in accordance with claim 1, wherein said magnetic shield is integrated with said one set of flux collecting rings by resin molding.
- 30 4. The torque sensor in accordance with claim 1, wherein said magnetic shield directly covers the outer cylindrical surface of said one set of flux collecting rings.